

905-A

OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/593,316  
DATE: 06/20/2006  
TIME: 13:13:19

Input Set : C:\CRF3\Outhold\1593316SEQa.txt  
Output Set : N:\CRF3\06202000\1593316.raw

ENTERED

```

1 110> APPLICANT: Chen, Bin
W--> 4 <120> TITLE OF INVENTION: 5( Upstream Region Sequences of the MYOD1 Gene
W--> 5 and Uses Thereof
W--> 6 <130> FILE REFERENCE: D6015
W--> 7 <140> CURRENT APPLICATION NUMBER: US 09/193,792
C--> 8 <141> CURRENT FILING DATE: 2000-06-16
9 <150> PRIOR APPLICATION NUMBER: US 06/365,113
10 <151> PRIOR FILING DATE: 1997-11-18
W--> 11 <160> NUMBER OF SEQ ID: 20
12 <161> SEQ ID NO: 1
13 <111> LENGTH: 2284
14 <112> TYPE: DNA
15 <113> ORGANISM: Homo sapiens
W--> 17 <220> FEATURE:
18 <221> NAME/KEY: promoter
19 <222> LOCATION: +1537..747
20 <223> OTHER INFORMATION: 5' upstream promoter region of the human MYOD1 gene
W--> 21 <400> SEQUENCE: 1
22 agaaagagagc tgaagagacc gaatggaggtt ggcagatag ctgaagcttg tatggaagcc 60
23 agatataccca catcccaagg gttggtttgcc tctctctgtt tccagccttt caagtgagcc 120
24 ttcaggaagag agacacagct aaagcctgga gactctgagg actcctctag gacatagtac 180
25 caagatagag ttgttaagct acgaacacac gcatccaaat ctgaagagct cttactcgaa 240
26 taacctaca tccagccttg aaggtttcca tatcttgggt ctcttcagag tatcctcccc 300
27 accacattta ctccaagaaa ttactatcat ccccaaatct ataactggaa actgaaggtc 360
28 aggaagagga catgaacttc aaaaatcac acagttggga aactctggag tctcaactca 420
29 actggtctgc aaaccgactc tgggaagatt caggttagat gaggtcaggt tctcagggca 480
30 ggtcctaaag ttgacacact tggcgaatg caatttccct gactcagcac cgaagtgagc 540
31 gaggagagaa gcccccagca gaagggcttt tcttccagc tgaagagaga gctcagctca 600
32 gaccccagge atggaacttg aaacctctgc tctggaagc tgcagattta aaaggagggc 660
33 attcttaacc tgggcaggtt cgaattttgg agacatragc gcaaggttta gaagcaatct 720
34 cgaattctca tacaaccata gttgggttgc taagcatcta ggaagagatg actgagccca 780
35 agactgctg agaacctccc agctcaggga ctggcgggat atcagaacct ctaccaccgc 840
36 ttgtctctcg gctcgcacac ttcaactctc ggggtctctc cggctgttgt tgcactcagc 900
37 cgtttctctc ccttagcct cttaagcttt tctttctctc gttctctctc aattctttcg 960
38 atcctctctt caggttctca ctctctagct ctatgagccc aattctctc ct tctctcaa 1020
39 atctctcaat acctgatttc taagcctcgt ctaccatag gtcctccaca aatcagaggt 1080
40 acanaggagt attgaaagtc agctcagagg taagcggcgc cagccagcct ttcccaggca 1140
41 taagagagtc ggaatgttga gaagtgttga aaggccttgc ctgaagacca atgtctagcc 1200
42 gcttagagct tgcagctccc tctctccctc cctgcacagt aaggaacata ggcagcagcc 1260
43 cactatgaag ggcagagctg gctgagcagt ctgaagcccc tgggcacccc cgaagacccc 1320
44 ccccaacccc cgcctcccaag tcttctatct ggaatcagac tccctctccc caagctgccc 1380
45 gcttaggctc aggaacattt agctatctac gcat aatag ccaaaagac ctggaagaaa 1440
46 aatcagaggt cagaaagccc tggagccttg cggcctgttt ctttaaccac aatcagagcc 1500
47 agcaagagaa agtaagagtg aggaacatga gttgagagtt cagactgcca gaactttgtt 1560
48 atctaaagcc ggaagctccc agcagcagaa agttcagacc actctctgac atttctttg 1620
49 agcaagagcc agtaagctgc cgcacacccc ccaaaatata gaactactat cagcagcctt 1680
50 cgcagagcta gactgaagg ccccagagc ctctctctgc tcttttgcac caacgaagca 1740

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RECEIVED  
OCT 13 2006  
OIPE/JCWS

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/593,316

DATE: 06/20/2000

TIME: 12:12:19

Input Set : C:\CRF3\Datahold\I593316SEQa.txt

Output Set : N:\CRF3\06202000\I593316.raw

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51 attc'atgac gacccatatt tgaactcccc ggaacttccc ttcttcgaaa acctgaaccc 1800
52 ggcctctgata caactgagag ggtctctgaa acccgaaagc cactcgaact tccccgggc 1801
53 ggtgacccca acccggggga caggtgagga cgaactatgt cgcggcgcca gggggagca 1802
54 cgaagcgggc ggtctccttc tatgggcttg caagcctgtr aagggcagga ccccccaac 1803
55 cgaacggcgc aagggcgcca ccatgcggga cggcgccgc ctgagcaaac taatgagga 1804
56 ctgtgagaca ctcaagcctt gcaactcgag caatccaaac caacggttac caaggttga 1805
57 gttctctggc aaccccatcc gctatctga gggcctgag actctgtac ggcacagga 1806
58 cggcgcgccc cctgctgag ccccttctc tgcgcgggc cactcctcc cggcgcggc 1807
59 cggcgagac taatcgggg actcggagc gtcagcccg ggtctcaact gctcggagg 1808
60 caga
61
62 <210> SEQ ID NO: 2
63 <211> LENGTH: 2021
64 <212> TYPE: DNA
65 <213> ORGANISM: Homo sapiens

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W--&gt; 66 &lt;220&gt; FEATURE:

67 &lt;223&gt; OTHER INFORMATION: PstI fragment (PP2.0) used as a hybridization probe

W--&gt; 68 &lt;400&gt; SEQUENCE: 2

```

69 ctacaggaaa gaggacacag taagggctgg aaactcgttg cactccgtca gggcatgta 60
70 ctacagatga gttgttaagg tggggagac acatccaaac tctgaaagcc ccttgcctga 120
71 ataaccttcc atcaccgctt gaggacttcc atatccttgg tctctcaga ctacatccc 180
72 ccccaaatc actcccaagaa attactgtta tccccaaatc talaactgga aactgaggt 240
73 caggaaaggag acatgatttc cacaataatc cacagttggg aaactctgga gttcgaactc 300
74 aactggtctg caaacccgct ctggggagat tcaggttggg tgaggtcagg ttctcaggcc 360
75 aggtctctaa gtttgacacc ttggcgaaat ggaacttctc tgaactcaga cccagtgac 420
76 gggggaagca agcggcgagg agaagggctt ttcttccag ctgaagagcc agtctagct 480
77 aqacccagg catggccttg gacacccctg ctgtggaaac gtgcagattt agatggagg 540
78 gatctctaac ctgggcagga tccgagtttg gagagatttg cggcaatttt aqcaacatc 600
79 tccgattctc gtacacccat aggttggttt ctaagcgtct aggaagagag aactaggcc 660
80 acgacctgct gaggcaactc caggtcgggg actggcgaaa tatcagagcc tctcagacc 720
81 gtttgtctcg ggtcggcca cttaactct cgggtctctc cggcctgttg ttgcactgt 780
82 ggtttctctg cccctgagcc tctaaagctt ctgctttctg cgtctctctc agcctcttct 840
83 ggtcctctt tcaacgtctc actctcagc tctgtgccc caatgcttgc cctctctcca 900
84 aatctctcag gactgattt ctacagccgc tctacccatg ggtcccccac aaatcaggga 960
85 tacagaggag tattgaaagt cagctcagag gtgagcgcc gcacccaggg ttctccggcg 1020
86 atacacaggt cgggttttgg agaggtttgg aaaggcgcty cgggagagcc aagtctcagc 1080
87 cgcctagggc ttgcggctcg ctccctcctc cctgccccg taggggacct agcgccaca 1140
88 caggtgttga gggcgagctt ggttggcag tctcgggccc ctggccccc cgggggaccc 1200
89 cccccagcc cccccccga gtgttctat tggcctcggg ctccctctcc cccagctgac 1260
90 cgcctgggct cggggcgctt taggtacta cggataaata gcccaggggc cctggccgag 1320
91 aagctaggga tgaggagacc ctgggagctt ggcgcgctt tcttaacca caaatcaggc 1380
92 cggacaggag agggaggagt gggggagagt ggggtgggat tcaactgac agcactttgc 1440
93 tatctaragc cgggctccc gggggcaga aagttccgc cactctctgc cgtttggtt 1500
94 gggcgaaagg caggacccta ccccgccacc gccaggatat ggagctactc tgcacaccac 1560
95 tccggcagct agactgagc gcccgcagc gctctctctg ctctttgac acaacggagc 1620
96 acttctatga cgaacgctat ttcaactccc cggacctgac ctctctgaa gacttgaaac 1680
97 cagccttat gcaactgagc ggtctctga aacccgaaga gcactcacc ttccccagc 1740
98 cagtgcaacc ggcggcgagc acacttgag acgacatgt ggcggcgccc agcgggacac 1800
99 acgagcgagg cgcctgcta ctgtggcctt gcaaggcgtg caagcgagag acnaccacac 1860
100 cggacggcg caggcgccc accatggcg agcgggcgcc cctgagcaaa gtaaatgagg 1920

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## RAW SEQUENCE LISTING

DATE: 06/20/2000

PATENT APPLICATION: US/09/593,316

TIME: 10:12:10

Input Set : C:\CRF3\Datahold\1593316SEQa.txt

Output Set: N:\CRF3\06202000\1593316.raw

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101 ccttttgaag actcaaaagg tgaactgtga ggaatccaaa cgaacggttg cccaaaggtg 1980
102 gaatctatcg caacgcacac cgtatatatg agggctgtga g 2021
103 <210> SEQ ID NO: 4
104 <211> LENGTH: 563
105 <212> TYPE: DNA
106 <213> ORGANISM: Homo sapiens
W--> 108 <220> FEATURE:
109 <222> LOCATION: -1117..-861
110 <223> OTHER INFORMATION: PstI-BamHI fragment (PB0.5) used as a hybridization
111 probe
W--> 112 <400> SEQUENCE: 3
113 ctgcaggaaa gaaacacacg taaggctctg aqaactcttg cactccgtca gggcatggta 60
114 ccacagatga gttgtaagcc tgcaggacac aqaatccaac tctgaaagcc ccttgcctga 120
115 ataaccttac atcaccgctt gagggtcttc atatccttgg tctcttcaga ctgtcatccc 180
116 caccacaatt actccaaaga attactgtca tcccacaate tataacttga aactgagget 240
117 caggaaggag acatgaattc cacaatatca cagaatttgg aaactcttga gtctgcactc 300
118 aactggctct caaacgact ctccagact tcaagtgaga tgaggtcagg ttctcaggcc 360
119 aggtcttga gtttgacac ttgcgaaat gaacttctct tgaactcaga ccgcattgac 420
120 ggcggaagca agcccgcagc agaaaggttt ttcttcccag ctgaagaagg agctcagcct 480
121 aqaacccagg catggcaatg gacacccctg ctgtggaaac gtgcagattt agatggaggg 540
122 gatccctaac ctgggcagga tcc 563
123 <210> SEQ ID NO: 4
124 <211> LENGTH: 570
125 <212> TYPE: DNA
126 <213> ORGANISM: Homo sapiens
W--> 128 <220> FEATURE:
129 <222> LOCATION: -229..336
130 <223> OTHER INFORMATION: SmaI fragment (SS0.5) used as a hybridization probe
W--> 131 <400> SEQUENCE: 4
132 cccgagggac ccccacaa ccgcgcccg agtgttccta ttgacctcag actcccccctc 60
133 ccccagctgc ccgcctgagc tccggggcgt ttaggctact aggaataaat agcccaggcc 120
134 gcttggccga gaagctaggg atgaggaaac cctggggccc tccggcgcct ttcccttaac 180
135 acaaatcagg ccggacagga gagggaagag tgggggacag tgggtggaga ttcaagactgc 240
136 cagcaatttg ctatctacag ccagggctcc cagagcagag aaagtctccg ccactctctg 300
137 ccgcttgagt tgggcgaag ccaggaacct gcccgcacac cgcaggata tagagctact 360
138 gtgcacaccc ctccgcagc tagacctgac ggcacccgac ggcctctctc gctcctttgc 420
139 cacaacggac gactctatg acgacccctg ttctgaactc ccggacctgc gctctcttga 480
140 agacctggac ccgcgcctga tgcactggg cgcgctctct aaacccgaag agcaactgca 540
141 ctcccccgcg ggggtgcacc cggccccggg 570
142 <210> SEQ ID NO: 5
143 <211> LENGTH: 18
144 <212> TYPE: DNA
145 <213> ORGANISM: artificial sequence
W--> 147 <220> FEATURE:
148 <221> NAME/KEY: primer_bind
149 <223> OTHER INFORMATION: M1 primer used to amplify fragment corresponding to
150 nucleotides 7-129 of the cDNA sequence of human
151 Hsp91 gene
W--> 152 <400> SEQUENCE: 5

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/593,316

DATE: 06/20/2000

TIME: 13:12:10

Input Set : C:\CRF3\Datahold\I593316SEQa.txt

Output Set: N:\CRF3\06202000\I593316.raw

```

153 acggccagca ctttgcac          18
155 <210> SEQ ID NO: 6
156 <211> LENGTH: 20
157 <212> TYPE: DNA
158 <213> ORGANISM: artificial sequence
W--> 159 <220> FEATURE:
160 <221> NAME/KEY: primer_bind
161 <223> OTHER INFORMATION: M2 primer used to amplify fragment corresponding to
162     nucleotides 7-126 of the cDNA sequence of human
163     MyoD1 gene
W--> 164 <400> SEQUENCE: 6
165 atccctggcgg tggcggcga          20
167 <210> SEQ ID NO: 7
168 <211> LENGTH: 19
169 <212> TYPE: DNA
170 <213> ORGANISM: artificial sequence
W--> 171 <220> FEATURE:
172 <221> NAME/KEY: primer_bind
173 <223> OTHER INFORMATION: MetF primer used to amplify internal methylation
174     sites
W--> 175 <400> SEQUENCE: 7
176 ccgaatttga aqaatttg          19
178 <210> SEQ ID NO: 8
179 <211> LENGTH: 19
180 <212> TYPE: DNA
181 <213> ORGANISM: artificial sequence
W--> 182 <220> FEATURE:
183 <221> NAME/KEY: primer_bind
184 <223> OTHER INFORMATION: MetF primer used to amplify internal methylation
185     sites
W--> 186 <400> SEQUENCE: 8
187 gaccccgaga attgaagt          19
189 <210> SEQ ID NO: 9
190 <211> LENGTH: 19
191 <212> TYPE: DNA
192 <213> ORGANISM: artificial sequence
W--> 193 <220> FEATURE:
194 <221> NAME/KEY: primer_bind
195 <223> OTHER INFORMATION: MyoD1 primer M15 used to amplify MyoD1 cDNA
196     synthesized via AMV reverse transcriptase
W--> 197 <400> SEQUENCE: 9
198 gggccgaaac tgcgcgaa          19
200 <210> SEQ ID NO: 10
201 <211> LENGTH: 19
202 <212> TYPE: DNA
203 <213> ORGANISM: artificial sequence
W--> 204 <220> FEATURE:
205 <221> NAME/KEY: primer_bind
206 <223> OTHER INFORMATION: MyoD1 primer M16 used to amplify MyoD1 cDNA

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## RAW SEQUENCE LISTING

DATE: 06/20/2000

PATIENT APPLICATION: US/09/593,316

TIME: 12:42:40

Input Set: C:\CRF3\Datahold\I593316SEQa.txt

Output Set: N:\CRF3\06202000\I593316.raw

```

207       synthesized via AMV reverse transcriptase
W--> 208 <400> SEQUENCE: 10
209 gattgacctcc acaatgctg          19
210       SEQ ID NO: 11
212 <211> LENGTH: 18
213 <212> TYPE: DNA
214 <213> ORGANISM: artificial sequence
W--> 215 <220> FEATURE:
216 <221> NAME/KEY: primer_bind
217 <223> OTHER INFORMATION: (-actin primer ACIF used to amplify (-actin product
W--> 218 <400> SEQUENCE: 11
219 actctctccag ccttcctt          18
220       SEQ ID NO: 12
222 <211> LENGTH: 18
223 <212> TYPE: DNA
224 <213> ORGANISM: artificial sequence
W--> 225 <220> FEATURE:
226 <221> NAME/KEY: primer_bind
227 <223> OTHER INFORMATION: (-actin primer ACIF used to amplify (-actin product
W--> 228 <400> SEQUENCE: 12
229 ctccctctgc atccctgtc          18
230       SEQ ID NO: 13
232 <211> LENGTH: 20
233 <212> TYPE: DNA
234 <213> ORGANISM: artificial sequence
W--> 235 <220> FEATURE:
236 <221> NAME/KEY: primer_bind
237 <223> OTHER INFORMATION: FKHR reverse primer used to amplify a 219 bp fragment
238       for Pax3-FKHR and a 206 bp fragment for Pax7-FKHR
W--> 239 <400> SEQUENCE: 13
240 attgagcctc caccagaac          20
241       SEQ ID NO: 14
243 <211> LENGTH: 18
244 <212> TYPE: DNA
245 <213> ORGANISM: artificial sequence
W--> 246 <220> FEATURE:
247 <221> NAME/KEY: primer_bind
248 <223> OTHER INFORMATION: PAX3/7 consensus primer used to amplify a 219 bp fragment
249       for Pax3-FKHR and a 206 bp fragment for Pax7-FKHR
W--> 250 <400> SEQUENCE: 14
251 aacagcagct ctgcctac          18
252       SEQ ID NO: 15
254 <211> LENGTH: 20
255 <212> TYPE: DNA
256 <213> ORGANISM: artificial sequence
W--> 257 <220> FEATURE:
258 <221> NAME/KEY: primer_bind
259 <223> OTHER INFORMATION: FKHR forward primer used to amplify the normal FKHR
260       transcript

```

## VERIFICATION SUMMARY

DATE: 06/20/2000

PATIENT APPLICATION: US/09/593,316

TIME: 12:12:11

Input Set : C:\CRF3\Datahold\ID6015SEQa.txt

Output Set: N:\CRF3\06202000\I593316.raw

L:4 M:283 W: Missing Blank Line separator, <120> field identifier  
L:5 M:283 W: Missing Blank Line separator, <130> field identifier  
L:6 M:283 W: Missing Blank Line separator, <140> field identifier  
L:7 M:283 W: Missing Blank Line separator, <140> field identifier  
L:8 M:276 C: Current Application Number differs. Replaced Current Application Number  
L:8 M:271 C: Current Filing Date differs. Replaced Current Filing Date  
L:11 M:283 W: Missing Blank Line separator, <180> field identifier  
L:17 M:283 W: Missing Blank Line separator, <220> field identifier  
L:21 M:283 W: Missing Blank Line separator, <100> field identifier  
L:66 M:283 W: Missing Blank Line separator, <220> field identifier  
L:68 M:283 W: Missing Blank Line separator, <100> field identifier  
L:100 M:283 W: Missing Blank Line separator, <220> field identifier  
L:112 M:283 W: Missing Blank Line separator, <400> field identifier  
L:128 M:283 W: Missing Blank Line separator, <220> field identifier  
L:131 M:283 W: Missing Blank Line separator, <400> field identifier  
L:147 M:283 W: Missing Blank Line separator, <220> field identifier  
L:152 M:283 W: Missing Blank Line separator, <400> field identifier  
L:159 M:283 W: Missing Blank Line separator, <220> field identifier  
L:161 M:283 W: Missing Blank Line separator, <100> field identifier  
L:171 M:283 W: Missing Blank Line separator, <220> field identifier  
L:175 M:283 W: Missing Blank Line separator, <100> field identifier  
L:182 M:283 W: Missing Blank Line separator, <220> field identifier  
L:186 M:283 W: Missing Blank Line separator, <400> field identifier  
L:192 M:283 W: Missing Blank Line separator, <220> field identifier  
L:197 M:283 W: Missing Blank Line separator, <400> field identifier  
L:204 M:283 W: Missing Blank Line separator, <220> field identifier  
L:208 M:283 W: Missing Blank Line separator, <400> field identifier  
L:215 M:283 W: Missing Blank Line separator, <220> field identifier  
L:218 M:283 W: Missing Blank Line separator, <460> field identifier  
L:225 M:283 W: Missing Blank Line separator, <220> field identifier  
L:228 M:283 W: Missing Blank Line separator, <400> field identifier  
L:235 M:283 W: Missing Blank Line separator, <220> field identifier  
L:239 M:283 W: Missing Blank Line separator, <400> field identifier  
L:246 M:283 W: Missing Blank Line separator, <220> field identifier  
L:250 M:283 W: Missing Blank Line separator, <100> field identifier  
L:267 M:283 W: Missing Blank Line separator, <220> field identifier  
L:261 M:283 W: Missing Blank Line separator, <100> field identifier  
L:268 M:283 W: Missing Blank Line separator, <220> field identifier  
L:271 M:283 W: Missing Blank Line separator, <400> field identifier  
L:278 M:283 W: Missing Blank Line separator, <220> field identifier  
L:281 M:283 W: Missing Blank Line separator, <400> field identifier  
L:288 M:283 W: Missing Blank Line separator, <220> field identifier  
L:290 M:283 W: Missing Blank Line separator, <400> field identifier  
L:297 M:283 W: Missing Blank Line separator, <220> field identifier  
L:299 M:283 W: Missing Blank Line separator, <100> field identifier  
L:306 M:283 W: Missing Blank Line separator, <220> field identifier  
L:310 M:283 W: Missing Blank Line separator, <400> field identifier